Claims as filed

- 1. (original) A cleanser formulation comprising sulfur, a surfactant, and a lipophilic emulsifying agent, wherein the concentration of the emulsifying agent in the formulation is 7% w/w or higher.
- 2 (original) The cleanser formulation of claim 1 wherein the formulation has decreased malodor compared with a similar second cleanser formulation having the same concentration of sulfur and surfactant but having a concentration of the emulsifying agent less than 7% when the cleansers are applied to skin.
- 3. (original) The cleanser formulation of claim 1 wherein the lipophilic emulsifying agent is emulsifying wax.
- 4. (original) The cleanser formulation of claim 3 wherein the emulsifying wax is Emulsifying Wax N.F.
- 5. (original) The cleanser formulation of claim 1 wherein the concentration of emulsifying agent is between 8% and 20%.
- 6. (original) The cleanser formulation of claim 1 wherein the concentration of emulsifying agent is between 10% and 15%.

- 7. (original) The cleanser formulation of claim 1 wherein the concentration of emulsifying agent is about 15%.
- 8. (original) The cleanser formulation of claim 1 wherein the concentration of emulsifying agent is over 15%.
- 9 (original) The cleanser formulation of claim 1 wherein the surfactant is selected from the group consisting of nonionic, anionic, cationic, zwitterionic, amphoteric, and ampholytic surfactant.
- 10. (original) The cleanser formulation of claim 1 wherein the surfactant is an ionic surfactant or a combination of ionic and non-ionic surfactants.
- or more surfactants selected from the group consisting of sodium cocoyl isethionate,

 polypropylene glycol (PPG) -2-hydroxyethylcoco isostearamide, and a combination of disodium

 laureth sulfosuccinate and sodium lauryl sulfoacetate.
- 12. (original) The cleanser formulation of claim 1 wherein the concentration of surfactant in the formulation is about 5 to about 50%.

- 13. (original) The cleanser formulation of claim 12 wherein the concentration of surfactant in the formulation is 10 to 35%.
- 14. (original) The cleanser formulation of claim 13 wherein the concentration of surfactant in the formulation is 15 to 25%.
- 15. (original) The cleanser formulation of claim 1 wherein the sulfur is selected from the group consisting of elemental sulfur, a sulfite, a sulfide, a sulfate, a thiosulfate, and a mercaptan.
- 16. (original) The cleanser formulation of claim 1 wherein the concentration of sulfur in the formulation is between about 1% and about 25%.
- 17. (original) The cleanser formulation of claim 16 wherein the concentration of sulfur is between 2% and 20%.
- 18. (original) The cleanser formulation of claim 17 wherein the concentration of sulfur is between 3% and 10%.
- 19. (original) The cleanser formulation of claim 18 wherein the concentration of sulfur is about 5%.

- 20. (original) The cleanser formulation of claim 1 which further comprises a sulfonamide.
- 21. (original) The cleanser formulation of claim 20 wherein the sulfonamide is sulfacetamide.
- 22. (original) The cleanser formulation of claim 21 wherein the concentration of sulfacetamide in the cleanser is between about 1% and about 35%.
- 23. (original) The cleanser formulation of claim 22 wherein the concentration of sulfacetamide is between 5% and 20%.
- 24. (original) The cleanser formulation of claim 23 wherein the concentration of sulfacetamide is between 7.5% and 15%.
- 25. (original) The cleanser formulation of claim 24 wherein the concentration of sulfacetamide is about 10%.
- 26. (original) The cleanser formulation of claim 25 wherein the concentration of sulfur in the formulation is about 5%.

- 27. (original) The cleanser formulation of claim 1 which is free of perfumes and fragrances.
- 28. (original) The cleanser formulation of claim 27 which is free of masking agents.
- 29. (original) The cleanser formulation of claim 1 which comprises the following ingredients in the following concentrations w/w: 5% to 30% surfactant, 7% to 35% lipophilic emulsifier, 2% to 20% sulfur, and 5% to 20% sodium sulfacetamide.
- 30. (original) The cleanser formulation of claim 29 which further comprises 1 to 25% thickening agent.
- 31 (original) The cleanser of claim 1 which comprises the following ingredients: sulfur, methylparaben, propylparaben, sodium cocoyl isethionate, sodium lauryl sulfoacetate, disodium laureth sulfosuccinate, polypropylene glycol-2 hydroxyethyl coco isostearamide, emulsifying wax, and 0 to 1% mineral oil, wherein the concentration of emulsifying wax is at least 7%.
- 32. (original) The cleanser formulation of claim 31 which comprises the following ingredients in the following concentrations w/w: 1 to 25% sulfur, 0.1 to 0.25% methylparaben, 0.01 to 0.04% propylparaben, 3 to 10% sodium cocoyl isethionate, 2.5 to 15%

combination of sodium lauryl sulfoacetate and disodium laureth sulfosuccinate, 1 to 5% polypropylene glycol-2 hydroxyethyl coco isostearamide, 7 to 35% emulsifying wax, and 0% or more mineral oil.

- 33. (original) The cleanser formulation of claim 1 which comprises the following ingredients: sodium sulfacetamide, sulfur, methylparaben, propylparaben, disodium EDTA, butylated hydroxytoluene, sodium thiosulfate, sodium cocoyl isethionate, sodium lauryl sulfoacetate, disodium laureth sulfosuccinate, polypropylene glycol-2 hydroxyethyl coco isostearamide, diluted hydrochloric acid, emulsifying wax, and 0% or more mineral oil.
- 34. (original) The cleanser formulation of claim 33 which comprises the following ingredients in the following concentrations w/w: 5 to 15% sodium sulfacetamide, 2 to 10% sulfur, 0.1 to 0.25% methylparaben, 0.01 to 0.04% propylparaben, 0.01 to 0.25% disodium EDTA, 0.01 to 0.2% butylated hydroxytoluene, 0.05 to 0.5% sodium thiosulfate, 3 to 10% sodium cocoyl isethionate, 2.5 to 15% combination of sodium lauryl sulfoacetate and disodium laureth sulfosuccinate, 1 to 5% polypropylene glycol-2 hydroxyethyl coco isostearamide, 0.25 to 1.5% diluted hydrochloric acid, 7 to 35% emulsifying wax, and 0% or more mineral oil.
- 35. (original) A method for making a cleanser formulation comprising combining sulfur, a surfactant, and a lipophilic emulsifying agent to obtain the formulation, wherein the concentration of the lipophilic emulsifying agent in the formulation is at least about 7% w/w.

- 36. (original) The method of claim 35 wherein the sulfur is dispersed and homogenized with a surfactant and water to form a slurry and the slurry is combined with other ingredients including the lipophilic emulsifying agent to obtain the formulation.
- 37. (original) The method of claim 35 wherein the lipophilic emulsifying agent is emulsifying wax.
- 38. (original) The method of claim 37 wherein the emulsifying wax is Emulsifying Wax N.F.
- 39. (original) The method of claim 35 wherein the concentration of emulsifying agent is between 10% and 15%.
- 40. (original) The method of claim 35 wherein the concentration of emulsifying agent is about 15%.
- 41. (original) The method of claim 35 wherein the concentration of emulsifying agent is over 15%.
- 42. (original) The method of claim 35 wherein the surfactant is selected from the group consisting of nonionic, anionic, cationic, zwitterionic, amphoteric, and ampholytic surfactants.

- 43. (original) The method of claim 35 wherein the surfactant is an ionic surfactant or a combination of ionic and non-ionic surfactants.
- 44. (original) The method of claim 43 wherein the surfactant is one or more surfactants selected from the group consisting of sodium cocoyl isethionate, polypropylene glycol (PPG) -2-hydroxyethylcoco isostearamide, and a combination of disodium laureth sulfosuccinate and sodium lauryl sulfoacetate.
- 45 (original) The method of claim 35 wherein the concentration of surfactant in the formulation is about 5 to about 50%.
- 46. (original) The method of claim 45 wherein the concentration of surfactant in the formulation is 10 to 35%.
- 47. (original) The method of claim 46 wherein the concentration of surfactant in the formulation is 15 to 25%.
- 48. (original) The method of claim 35 wherein the sulfur is selected from the group consisting of elemental sulfur, a sulfite, a sulfide, a sulfate, a thiosulfate, and a mercaptan.
- 49. (original) The method of claim 35 wherein the concentration of sulfur in the formulation is between 1% and 25%.

- 50. (original) The method of claim 49 wherein the concentration of sulfur is between 2% and 20%.
- 51 (original) The method of claim 50 wherein the concentration of sulfur is between 3% and 10%.
- 52. (original) The method of claim 51 wherein the concentration of sulfur is about 5%.
- 53. (original) The method of claim 35 which further comprises combining a sulfonamide with the sulfur, the surfactant, and the lipophilic emulsifying agent.
 - 54. (original) The method of claim 53 wherein the sulfonamide is sulfacetamide.
- 55. (original) The method of claim 54 wherein the concentration of sulfacetamide in the formation is between 1% and 35%.
- 56. (original) The method of claim 55 wherein the concentration of sulfacetamide is between 5% and 20%.
- 57. (original) The method of claim 56 wherein the concentration of sulfacetamide is between 7.5% and 15%.

- 58. (original) The method of claim 57 wherein the concentration of sulfacetamide is about 10%.
- 59. (original) The method of claim 58 wherein the concentration of sulfur in the formulation is about 5%.
- 60. (original) The method of claim 35 wherein no perfumes or fragrances are combined in the formulation.
- 61. (original) The method of claim 60 wherein no masking agents are combined in the formulation.
- 62. (original) The method of claim 35 wherein the following ingredients in the following concentrations w/w are combined to obtain the formulation: about 5% to about 30% surfactant, about 1% to about 25% thickening agent, about 7% to about 35% lipophilic emulsifier, about 2% to about 20% sulfur, and about 5% to about 20% sodium sulfacetamide.
- 63. (original) The method of claim 35 wherein the following ingredients are combined to obtain the formulation: sulfur, methylparaben, propylparaben, sodium cocoyl isethionate, sodium lauryl sulfoacetate, disodium laureth sulfosuccinate, polypropylene glycol-2 hydroxyethyl coco isostearamide, and emulsifying wax, wherein the concentration of emulsifying wax in the formulation is between 7% and 35%.

- 64. (original) The method of claim 63 wherein the following ingredients in the following concentrations w/w are combined to obtain the formulation: 1 to 25% sulfur, 0.1 to 0.25% methylparaben, 0.01 to 0.04% propylparaben, 3 to 10% sodium cocoyl isethionate, 2.5 to 15% combination of sodium lauryl sulfoacetate and disodium laureth sulfosuccinate, 1 to 5% polypropylene glycol-2 hydroxyethyl coco isostearamide, 7 to 35% emulsifying wax, and 0% or more mineral oil.
- 65. (original) The method of claim 35 wherein the following ingredients are combined to obtain the formulation: sodium sulfacetamide, sulfur, methylparaben, propylparaben, disodium EDTA, butylated hydroxytoluene, sodium thiosulfate, sodium cocoyl isethionate, sodium lauryl sulfoacetate, disodium laureth sulfosuccinate, polypropylene glycol-2 hydroxyethyl coco isostearamide, diluted hydrochloric acid, and emulsifying wax, wherein the concentration of emulsifying wax in the formulation is between 7 and 35%.
- 66. (original) The method of claim 65 wherein the following ingredients in the following concentrations w/w are combined to obtain the formulation: 5 to 15% sodium sulfacetamide, 2 to 10% sulfur, 0.1 to 0.25% methylparaben, 0.01 to 0.04% propylparaben, 0.01 to 0.25% disodium EDTA, 0.01 to 0.2% butylated hydroxytoluene, 0.05 to 0.5% sodium thiosulfate, 3 to 10% sodium cocoyl isethionate, 2.5 to 15% combination of sodium lauryl sulfoacetate and disodium laureth sulfosuccinate, 1 to 5% polypropylene glycol-2 hydroxyethyl coco isostearamide, 0.25 to 1.5% diluted hydrochloric acid, 7 to 35% emulsifying wax, and 0% or more mineral oil.

- A cleanser formulation made by the method of claim 35.
- 68. (original) A cleanser formulation made by the method of claim 62.
- 69. (original) A cleanser formulation made by the method of claim 63.
- 70. (original) A cleanser formulation made by the method of claim 64.
- 71. (original) A cleanser formulation made by the method of claim 65.
- 72. (original) A cleanser formulation made by the method of claim 66.
- 73. (new) A cleanser formulation comprising sulfur, a surfactant, and emulsifying wax, wherein the concentration of the emulsifying wax in the formulation is 7% w/w or higher.
- 74. (new) The cleanser formulation of claim 73 wherein the emulsifying wax is Emulsifying Wax N.F.
- 75. (new) The cleanser formulation of claim 73 wherein the concentration of the emulsifying wax is between 8% and 20%.

- 76. (new) The cleanser formulation of claim 73 wherein the concentration of emulsifying wax is between 10% and 15%.
- 77. (new) The cleanser formulation of claim 73 wherein the concentration of emulsifying wax is about 15%.
- 78. (new) The cleanser formulation of claim 73 wherein the concentration of emulsifying wax is over 15%.
- 79. (new) The cleanser formulation of claim 73 wherein the sulfur is selected from the group consisting of elemental sulfur, a sulfite, a sulfide, a sulfate, a thiosulfate, and a mercaptan.
- 80. (new) The cleanser formulation of claim 73 wherein the concentration of sulfur in the formulation is between about 1% and about 25%.
- 81. (new) The cleanser formulation of claim 73 which further comprises a sulfonamide.
- (new) The cleanser formulation of claim 81 wherein the sulfonamide is 82. sulfacetamide.

- 83. (new) The cleanser formulation of claim 82 wherein the concentration of sulfacetamide in the cleanser is between about 1% and about 35%.
- 84. (new) The cleanser formulation of claim 83 wherein the concentration of sulfacetamide is between 5% and 20%.
- 85. (new) The cleanser formulation of claim 84 wherein the concentration of sulfacetamide is between 7.5% and 15%.
- 86. (new) The cleanser formulation of claim 85 wherein the concentration of sulfacetamide is about 10%.
- 87. (new) The cleanser formulation of claim 86 wherein the concentration of sulfur in the formulation is about 5%.
- 88. (new) The cleanser formulation of claim 73 which is free of perfumes and fragrances.
 - 89. (new) The cleanser formulation of claim 88 which is free of masking agents.

90. (new) The cleanser formulation of claim 73 which comprises the following ingredients in the following concentrations w/w: 5% to 30% surfactant, 7% to 35% emulsifying wax, 2% to 20% sulfur, and 5% to 20% sodium sulfacetamide.

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